

**Coast Guard, DHS**
**Pt. 150, Table II**

Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Zinc bromide, Calcium bromide solution, see Drilling brine (containing Zinc salts).	.....	.....		DZB

1. Because of very high reactivity or unusual conditions of carriage or potential compatibility problems, this commodity is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (CG-ENG-5), Hazardous Materials Division, U.S. Coast Guard, 2100 2nd Street, SW., Stop 7126, Washington, DC 20593-7126. Telephone 202-372-1420; email: [hazmatstandards@uscg.mil](mailto:hazmatstandards@uscg.mil).

2. See Appendix I—Exceptions to the Chart.

[USCG 2000-7079, 65 FR 67162, Nov. 8, 2000, as amended by USCG-2006-25697, 71 FR 55746, Sept. 25, 2006; USCG-2008-0906, 73 FR 56510, Sept. 29, 2008; USCG-2009-0702, 74 FR 49236, Sept. 25, 2009; USCG-2010-0759, 75 FR 60003, Sept. 29, 2010; USCG-2012-0832, 77 FR 59783, Oct. 1, 2012]

**TABLE II TO PART 150—GROUPING OF CARGOES**

**0. UNASSIGNED CARGOES**

Acetone cyanohydrin <sup>1,2</sup>	Sulfur <sup>1</sup>
Alkylbenzenesulfonic acid <sup>1,2</sup>	Tall oil fatty acid, barium salt <sup>2</sup>
Aluminium chloride, Hydrochloric acid solution <sup>1</sup>	Urea, Ammonium mono- and di-hydrogen phosphate, Potassium chloride solution
Ammonium hydrogen phosphate solution <sup>1</sup>	
Ammonium nitrate solution <sup>1</sup>	
Ammonium thiocyanate, Ammonium thiosulfate solution <sup>1</sup>	
Benzenesulfonyl chloride <sup>1,2</sup>	1. NON-OXIDIZING MINERAL ACIDS
gamma-Butyrolactone <sup>1,2</sup>	Di-(2-ethylhexyl)phosphoric acid
Chlorine <sup>1</sup>	Ferric chloride solution
Chlorosulfonic acid <sup>1</sup>	Fluorosilicic acid
Decyloxytetrahydro-thiophene dioxide <sup>2</sup>	Hydrochloric acid
tert-Dodecanethiol <sup>2</sup>	Phosphoric acid
2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution <sup>1,2</sup>	Polyaluminum chloride solution
Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid solution <sup>1,2</sup>	
Diphenylopropane-Epichlorohydrin resins <sup>1</sup>	2. SULFURIC ACIDS
Dodecylbenzenesulfonic acid <sup>1,2</sup>	Sulfuric acid <sup>2</sup>
Dodecyl hydroxypropyl sulfide <sup>2</sup>	Sulfuric acid, spent
Ethylene oxide <sup>1</sup>	Titanium tetrachloride
Hydrogen peroxide solutions <sup>1</sup>	
Lactic acid <sup>2</sup>	3. NITRIC ACID
Long chain alkaryl sulfonic acid (C16-C60) <sup>2</sup>	Ferric nitrate, Nitric acid solution
Magnesium chloride solution <sup>1,2</sup>	Nitric acid (70% or less)
Molasses residue <sup>1</sup>	
Motor fuel antiknock compounds containing Lead alkyls <sup>1</sup>	4. ORGANIC ACIDS
Naphthalene sulfonic acid-formaldehyde copolymer, sodium salt solution <sup>1</sup>	Acetic acid <sup>2</sup>
NIAx POLYOL APP 240C <sup>1,2</sup>	Acrylic acid <sup>2</sup>
Nitrating acid <sup>1</sup>	Butyric acid
Nitric acid (greater than 70%) <sup>1</sup>	Cashew nut shell oil (untreated)
o-Nitrophenol <sup>1,2</sup>	Citric acid
Noxious Liquid Substance, n.o.s. (NLS's) <sup>1</sup>	Chloroacetic acid solution
Oleum <sup>1,2</sup>	Chloropropionic acid
Phosphorus <sup>1</sup>	Decanoic acid
Phthalate based polyester polyol <sup>2</sup>	2,2-Dichloropropionic acid
SAP 7001 <sup>1</sup>	2,2-Dimethyloctanoic acid
Sodium chlorate solution <sup>1,2</sup>	2-Ethylhexanoic acid
Sodium dichromate solution <sup>1,2</sup>	Formic acid <sup>2</sup>
Sodium hydrogen sulfide, Sodium carbonate solution <sup>1,2</sup>	Glycolic acid
Sodium sulfide, Hydrosulfide solution <sup>1,2</sup>	Glyoxylic acid
Sodium thiocyanate solution <sup>1,2</sup>	n-Heptanoic acid

**Pt. 150, Table II**

**46 CFR Ch. I (10-1-12 Edition)**

Undecanoic acid	N-Ethyl-n-butylamine	
<b>5. CAUSTICS</b>		
Ammonium sulfide solution	N-Ethyl cyclohexylamine	
Calcium hypochlorite solutions	Ethylenediamine <sup>2</sup>	
Caustic potash solution <sup>2</sup>	2-Ethyl hexylamine	
Caustic soda solution <sup>2</sup>	N-Ethylmethylallylamine	
Cresylate spent caustic	Glyphosate solution (not containing surfactant)	
Cresylic acid, sodium salt solution	Hexamethylenediamine	
Kraft black liquor	Hexamethylenediamine solution	
Kraft pulping liquors	Hexamethylenetetramine	
Mercaptobenzothiazol, sodium salt solution	Hexamethylenetetramine solutions	
Potassium hydroxide solution <sup>2</sup>	Hexamethylenimine	
Sodium acetate, Glycol, Water mixture (containing Sodium hydroxide)	HiTec 321	
Sodium aluminate solution	bis-(Hydrogenated tallow alkyl)methyl amines	
Sodium borohydride, Sodium hydroxide solution	Isophorone diamine	
Sodium carbonate solutions	Long chain polyetheramine in alkyl(C <sub>2</sub> -C <sub>4</sub> )benzenes	
Sodium cyanide solution	Metam sodium solution	
Sodium hydrosulfide solution <sup>2</sup>	Methylamine solutions	
Sodium hydrosulfide, Ammonium sulfide solution <sup>2</sup>	Morpholine <sup>2</sup>	
Sodium hydroxide solution <sup>2</sup>	Oleylamine	
Sodium hypochlorite solution	Pentaethylenehexamine	
Sodium 2-mercaptobenzothiazol solution	Pentaethylenehexamine, Tetraethylenepentamine mixture	
Sodium naphthenate solution	Phosphate esters, alkyl (C <sub>12</sub> -C <sub>14</sub> ) amine	
Sodium nitrite solution	Polyethylene polyamines <sup>2</sup>	
Triphenylborane, Caustic soda solution	Polyolefin amide alkeneamine (C <sub>28</sub> +)\nPolyisobutlenamine in aliphatic (C <sub>10</sub> -C <sub>14</sub> ) solvent	
Trisodium phosphate solution	Poly (C <sub>17</sub> +)-olefin amine	
Vanillin black liquor	Polyolefin amide alkeneamine/Molybdenum oxysulfide mixture	
<b>6. AMMONIA</b>		
Ammonia, anhydrous	Propanil, Mesityl oxide, Isophorone mixture	
Ammonia, aqueous	Propylamine	
Ammonium hydroxide (28% or less Ammonia)	iso-Propylamine solution	
Ammonium nitrate, Urea solution (containing Ammonia)	Roundup	
Urea, Ammonium nitrate solution (containing Ammonia)	Sulfohydrocarbon, long chain (C <sub>18</sub> +) alkylamine mixture	
<b>7. ALIPHATIC AMINES</b>		
N-Aminoethylpiperazine	Tetraethylenepentamine <sup>2</sup>	
Butylamine	Triethylamine	
Cyclohexylamine	Triethylenetetramine <sup>2</sup>	
Dibutylamine	Trimethylamine solution	
Diethylamine <sup>2</sup>	Trimethylhexamethylene diamine (2,2,4- and 2,4,4-)	
Diethylenetriamine <sup>2</sup>	<b>8. ALKANOLAMINES</b>	
Diisobutylamine	2-(2-Aminoethoxy)ethanol	
Diisopropylamine	Aminoethyl diethanolamine, Aminoethyl ethanolamine solution	
Dimethylamine	Aminoethyl ethanolamine	
Dimethylamine solution	2-Amino-2-methyl-1-propanol	
N,N-Dimethylcyclohexylamine	Diethanolamine	
N,N-Dimethyldodecylamine	Diethylaminoethanol	
Di-n-propylamine	Diethyllethanolamine	
Diphenylamine, reaction product with 2,2,4-Trimethylpentene	Diisopropanolamine	
Diphenylamines, alkylated	Dimethyllethanolamine	
Dodecylamine, Tetradecylamine mixture <sup>2</sup>	Ethanolamine	
Dodecyldimethylamine, Tetradecyldimethylamine mixture	Ethoxylated long chain alkyloxyalkanamine (C <sub>16</sub> +)\nMethyl diethanolamine	
Ethylamine <sup>2</sup>	Propanolamine	
Ethylamine solution	Triethanolamine <sup>2</sup>	
Ethyleneamine EA 1302 <sup>2</sup>	Triisopropanolamine	
	Ucarsol CR Solvent 302 SG	

**Coast Guard, DHS**

9. AROMATIC AMINES	
Alkyl (C8-C9) phenylamine in aromatic solvents	Butyl methacrylate
Aniline	Butyl methacrylate, Decyl methacrylate, Cetyl-Eicosyl methacrylate mixture
Calcium long chain alkyl phenolic amine (C8-C40)	Cetyl-Eicosyl methacrylate mixture
4-Chloro-2-methylphenoxyacetic acid, Dimethylamine salt solution	Decyl acrylate
Dialkyl (C8-C9) diphenylamines	Dodecyl methacrylate
2,6-Diethylaniline	Dodecyl-Octadecyl methacrylate mixture
Dimethylamine salt of 4-Chloro-2-methylphenoxyacetic acid solution	Dodecyl-Pentadecyl methacrylate mixture
2,6-Dimethylaniline	Ethyl acrylate
Diphenylamine	2-Ethylhexyl acrylate
2-Ethyl-6-methyl-N-(1'-methyl-2-methoxyethyl)aniline	Ethyl methacrylate
2-Methyl-6-ethyl aniline	2-Hydroxyethyl acrylate <sup>2</sup>
2-Methyl-5-ethyl pyridine	Methacrylic resin in Ethylene dichloride
Methyl pyridine	Methyl acrylate
3-Methylpyridine	Methyl methacrylate
N-Methyl-2-pyrrolidone <sup>2</sup>	Nonyl methacrylate
Paraldehyde-Ammonia reaction product	Polyalkyl(C18 - C22) acrylate in Xylene
Pyridine	Polyalkyl (C10-C18) methacrylate/Ethylene
Pyridine bases	Polyalkyl (C10-C20) methacrylate
Toluenediamine	Propylene copolymer mixture
p-Toluidine	Roehm monomer 6615
10. AMIDES	
Acetochlor	15. SUBSTITUTED ALLYLS
Acrylamide solution	Acrylonitrile <sup>2</sup>
Alkenyl(C11+)amide	Allyl alcohol <sup>2</sup>
N,N-Dimethylacetamide	Allyl chloride
N,N-Dimethylacetamide solution	1,3-Dichloropropene
Dimethylformamide	Dichloropropene, Dichloropropane mixtures
Formamide	Methacrylonitrile
N,N-bis(2-Hydroxyethyl) oleamide	16. ALKYLENE OXIDES
Octadecenoamide	Butylene oxide
Zinc alkenyl carboxamide	Ethylene oxide, Propylene oxide mixtures
11. ORGANIC ANHYDRIDES	
Acetic anhydride	Propylene oxide
Alkenylsuccinic anhydride	17. EPICHLOROHYDRIN
Maleic anhydride	Chlorohydrins
Phthalic anhydride	Epichlorohydrin
Polyisobut enyl anhydride adduct	18. KETONES
Polyolefin anhydride	Acetone <sup>2</sup>
Propionic anhydride	Acetophenone
12. ISOCYANATES	
Diphenylmethane diisocyanate	Amyl methyl ketone
Hexamethylene diisocyanate	Butyl heptyl ketone
Isophorone diisocyanate	Camphor oil
Poly(methylene polyphenyl isocyanate	1-(4-Chlorophenyl)-4,4-dimethyl pentan-3-one <sup>2</sup>
Toluene diisocyanate	Cyclohexanone
Trimethylhexamethylene diisocyanate (2,2,4- and 2,4,4-)	Cyclohexanone, Cyclohexanol mixtures <sup>2</sup>
13. VINYL ACETATE	
Vinyl acetate	Diisobutyl ketone
Vinyl ethyl ether	Ethyl amyl ketone
Vinyl neodecanate	Epoxy resin
Vinyl toluene	Ketone residue
14. ACRYLATES	
Butyl acrylate	Isophorone <sup>2</sup>
	Mesityl oxide <sup>2</sup>
	Methyl amyl ketone
	Methyl butyl ketone
	Methyl butyl ketone
	Methyl ethyl ketone <sup>2</sup>
	Methyl heptyl ketone
	Methyl isoamyl ketone
	Methyl isobutyl ketone <sup>2</sup>
	Methyl propyl ketone
	Trifluralin in Xylene

**Pt. 150, Table II**

Butyl methacrylate
Butyl methacrylate, Decyl methacrylate, Cetyl-Eicosyl methacrylate mixture
Cetyl-Eicosyl methacrylate mixture
Decyl acrylate
Dodecyl methacrylate
Dodecyl-Octadecyl methacrylate mixture
Dodecyl-Pentadecyl methacrylate mixture
Ethyl acrylate
2-Ethylhexyl acrylate
Ethyl methacrylate
2-Hydroxyethyl acrylate <sup>2</sup>
Methacrylic resin in Ethylene dichloride
Methyl acrylate
Methyl methacrylate
Nonyl methacrylate
Polyalkyl(C18 - C22) acrylate in Xylene
Polyalkyl (C10-C18) methacrylate/Ethylene
Polyalkyl (C10-C20) methacrylate
Propylene copolymer mixture
Roehm monomer 6615
15. SUBSTITUTED ALLYLS
Acrylonitrile <sup>2</sup>
Allyl alcohol <sup>2</sup>
Allyl chloride
1,3-Dichloropropene
Dichloropropene, Dichloropropane mixtures
Methacrylonitrile
16. ALKYLENE OXIDES
Butylene oxide
Ethylene oxide, Propylene oxide mixtures
Propylene oxide
17. EPICHLOROHYDRIN
Chlorohydrins
Epichlorohydrin
18. KETONES
Acetone <sup>2</sup>
Acetophenone
Amyl methyl ketone
Butyl heptyl ketone
Camphor oil
1-(4-Chlorophenyl)-4,4-dimethyl pentan-3-one <sup>2</sup>
Cyclohexanone
Cyclohexanone, Cyclohexanol mixtures <sup>2</sup>
Diisobutyl ketone
Ethyl amyl ketone
Epoxy resin
Ketone residue
Isophorone <sup>2</sup>
Mesityl oxide <sup>2</sup>
Methyl amyl ketone
Methyl butyl ketone
Methyl butyl ketone
Methyl ethyl ketone <sup>2</sup>
Methyl heptyl ketone
Methyl isoamyl ketone
Methyl isobutyl ketone <sup>2</sup>
Methyl propyl ketone
Trifluralin in Xylene

**Pt. 150, Table II****46 CFR Ch. I (10-1-12 Edition)**

19. ALDEHYDES	Methyl amyl alcohol Methyl butenol Methylbutynol 2-Methyl-2-hydroxy-3-butyne Methyl isobutyl carbinol 3-Methyl-3-methoxybutanol 2-Methyl-1,3-propanediol Molasses Nonyl alcohol <sup>2</sup> Octanol <sup>2</sup> Octyl alcohol <sup>2</sup> Penacosa(oxypropane-2,3-diy)s Pentadecanol Polyalkylene oxide polyol Polybutadiene, hydroxy terminated Polyglycerol Polyplycerine, Sodium salts solution (containing less than 3% Sodium hydroxide) <sup>2</sup> Polyolefin amide alkeneamine polyol Propyl alcohol <sup>2</sup> Propylene glycol <sup>2</sup> Rum Sorbitol solutions Stearyl alcohol Tallow fatty alcohol Tetradecanol Tridecanol Trimethyl nonanol Trimethylol propane polyethoxylate Undecanol Undecyl alcohol
20. ALCOHOLS, GLYCOLS	Acrylonitrile-Styrene copolymer dispersion in Polyether polyol Alcoholic beverages Alcohol polyethoxylates Alcohol polyethoxylates, secondary Alcohols (C13+) Amyl alcohol Behenyl alcohol Brake fluid base mixtures 1,4-Butanediol Butyl alcohol <sup>2</sup> Butylene glycol <sup>2</sup> Cetyl-Stearyl alcohol Choline chloride solutions Cyclohexanol Decyl alcohol <sup>2</sup> Diacetone alcohol <sup>2</sup> Diethyl hexanol Diisobutyl carbinol 2,2-Dimethylpropane-1,3-diol Dodecanol Dodecyl alcohol Ethoxylated alcohols, C11-C15 2-Ethoxyethanol Ethyl alcohol <sup>2</sup> Ethyl butanol Ethylene chlorohydrin Ethylene cyanohydrin Ethylene glycol <sup>2</sup> 2-Ethylhexanol Furfuryl alcohol <sup>2</sup> Glycerine <sup>2</sup> Glycerine, Dioxanedimethanol mixture Glycerol monooleate Heptanol Hexamethylene glycol Hexanol Hexylene glycol Hydroxy terminated polybutadiene Icosa(oxypropane-2,3-diy)s Lauryl polyglucose (50% or less) 3-Methoxy-1-butanol Methyl alcohol <sup>2</sup>
21. PHENOLS, CRESOLS	Benzyl alcohol Carbolic oil Creosote <sup>2</sup> Cresols Cresylic acid Cresylic acid diphenoxydized Cresylic acid, tar Dibutylphenols 2,4-Dichlorophenol Dodecyl phenol o-Ethylphenol Long chain alkylphenate/phenol sulfide mixture Nonyl phenol Octyl phenol Phenol Xylenols
22. CAPROLACTAM SOLUTIONS	Caprolactam solution
23-29. UNASSIGNED	
30. OLEFINS	Amylene Aryl polyolefin (C11-C50) Butadiene Butadiene, Butylene mixtures (cont. Acetylenes) Butene Butene oligomer Butylene 1,5,9-Cyclododecatriene

**Coast Guard, DHS****Pt. 150, Table II**

1,3-Cyclopentadiene dimer	Hexane <sup>2</sup>
Cyclopentadiene, Styrene, Benzene mixture	Methane
Cyclopentene	Methylcyclohexane
Decene	2-Methyl pentane
Dicyclopentadiene	Nonane
Diisobutylene	Octane
Dipentene	Pentane
Dodecene	Propane
Ethylene	iso-Propylcyclohexane
Ethylene-Propylene copolymer	Tridecane
Ethyldiene norbornene <sup>2</sup>	Waxes:
1-Heptene	Paraffin
Hexene	
Isoprene	
Isoprene concentrate (Shell)	
Latex (ammonia (1% or less) inhibited)	
Methyl acetylene, Propadiene mixture	
Methyl butene	
Methylcyclopentadiene dimer	
2-Methyl-1-pentene	32. AROMATIC HYDROCARBONS
4-Methyl-1-pentene	Alkyl(C3-C4)benzenes
alpha-Methyl styrene	Alkyl(C5-C8)benzenes
Myrcene	Alkyl(C9+)benzenes
Nonene	Alkyl acrylate-Vinyl pyridine copolymer in Toluene
1-Octadecene	Alkylbenzene, Alkyllindane, Alkyllindene mixture (each C12-C17)
Octene	Benzene
Olefin mixtures	Benzene hydrocarbon mixtures (having 10% Benzene or more)
alpha-Olefins (C6 - C18) mixtures	Benzene, Toluene, Xylene mixtures
alpha-Olefins (C13+)	Butylbenzene
1,3-Pentadiene	Butyl phenol, Formaldehyde resin in Xylene
Pentene	Butyl toluene
alpha-Pinene	Cumene
beta-Pinene	Cymene
Polybutene	Decylbenzene
Poly(4+isobutylene	Dialkyl(C10 - C14) benzenes
Polyolefin (molecular weight 300+)	Diethylbenzene
Polypropylene	Diisopropylbenzene
Poly(5+)propylene	Diisopropyl naphthalene
Propylene	Diphenyl
Propylene-butylene copolymer	Dodecylbenzene
Propylene dimer	Dodecyl xylene
Propylene, Propane, MAPP gas mixture	Ethylbenzene
Propylene tetramer	Ethyl toluene
Propylene trimer	1-Hexadecylnaphthalene, 1,4-bis(Hexadecyl)
Styrene monomer	Isopropylbenzene
Tetradecene	Methyl naphthalene
Tridecene	Naphthalene
Triisobutylene	Naphthalene mixture
Tripropylene	Naphthalene still residue
Turpentine	1-Phenyl-1-xylyl ethane
Undecene	Poly(2+)cyclic aromatics
	Polyolefin amine in alkylbenzenes (C2-C4)
	Propylbenzene
	Pseudocumene
	C9 Resinfeed (DSM) <sup>2</sup>
Alkanes (C6-C9)	Tetradecylbenzene
n-Alkanes (C10+)	Tetrahydronaphthalene
iso- & cyclo-Alkanes (C10-C11)	1,2,3,5-Tetramethylbenzene
iso- & cyclo-Alkanes (C12+)	Toluene
Butane	Tridecylbenzene
Cycloheptane	Triethylbenzene
Cyclohexane	Trimethylbenzene
Cyclopentane	Undecylbenzene
Decane	Xylene
Dodecane	Xylenes, Ethylbenzene mixture
Ethane	
Ethyl cyclohexane	
Heptane	
	33. MISCELLANEOUS HYDROCARBON MIXTURES
	Alachlor

**Pt. 150, Table II**

**46 CFR Ch. I (10-1-12 Edition)**

Alkylbenzenesulfonic acid, sodium salt solutions	Pine
Alkyl dithiothiadiazole (C6-C24)	Rosin
Asphalt blending stocks, roofers flux	Sperm
Asphalt blending stocks, straight run residue	Spindle
Asphalt emulsion	Turbine
Aviation alkylates	Residual
Calcium sulfonate, Calcium carbonate, Hydrocarbon solvent mixture	Road
Coal tar	Transformer
Coal tar distillate	Oxyalkylated alkyl phenol formaldehyde
Coal tar, high temperature	Petrolatum
Coal tar pitch	Pine oil
Decahydronaphthalene	Polyolefin amine (C28-C250)
Degummed C9 (DOW)	Polyolefin amide alkeneamine (C17+)
Diphenyl, Diphenyl ether	Polyolefin amide alkeneamine borate (C28-C250)
Distillates, flashed feed stocks	Sodium petroleum sulfonate
Distillates, straight run	Sulfohydrocarbon (C3-C88)
Drilling mud (low toxicity) ( <i>if flammable or combustible</i> )	Waxes:
Gas oil, cracked	Petroleum
Gasoline blending stock, alkylates	Sulfurized fat (C14-C20)
Gasoline blending stock, reformates	Sulfurized polyolefinamide alkeneamines (C28-C250)
Gasolines:	White spirit (low (15-20%) aromatic)
Automotive ( <i>not over 4.23 grams lead per gal.</i> )	34. ESTERS
Aviation ( <i>not over 4.86 grams lead per gal.</i> )	Alkane (C14-C17) sulfonic acid, sodium salt solution
Casinghead ( <i>natural</i> )	Alkyl(C8+)amine, Alkenyl (C12+) acid ester mixture
Polymer	Alkyl ester copolymer (C6-C18)
Straight run	Alkyl(C7-C9) nitrates <sup>2</sup>
Jet Fuels:	Alkyl (C8-C40) phenol sulfide
JP-4	Alkyl (C10-C20, saturated and unsaturated) phosphite
JP-5	Alkyl sulfonic acid ester of phenol
JP-8	Alkyaryl phosphate mixtures (more than 40%)
Kerosene	Amyl acetate
Mineral spirits	Animal and Fish oils, n.o.s.
Naphtha:	Animal and Fish acid oils and distillates, n.o.s.
Coal tar solvent	Barium long chain alkaryl (C11-C50) sulfonate
Petroleum	Barium long chain alkyl(C8-C14)phenate sulfide
Solvent	Benzene tricarboxylic acid trioctyl ester
Stoddard solvent	Benzyl acetate
Varnish Makers' and Painters'	Butyl acetate
Oil, fuel:	Butyl benzyl phthalate
No. 1	n-Butyl butyrate
No. 1-D	Butyl formate
No. 2	iso-Butyl isobutyrate
No. 2-D	n-Butyl propionate
No. 4	Calcium alkyl(C9)phenol sulfide, polyolefin phosphorosulfide mixture
No. 5	Calcium long chain alkaryl sulfonate (C11-C50)
No. 6	Calcium long chain alkyl phenate sulfide (C8-C40)
Oil, misc:	Calcium long chain alkyl phenates
Aliphatic	Calcium long chain alkyl salicylate (C13+)
Aromatic	Calcium nitrate, Magnesium nitrate, Potassium chloride solution
Clarified	Calcium nitrate solution
Coal	Cobalt naphthenate in solvent naphtha
Crude	Coconut oil, fatty acid
Diesel	Copper salt of long chain alkanoic acids
Gas, high pour	
Heartcut distillate	
Linseed	
Lubricating	
Mineral	
Mineral seal	
Motor	
Neatsfoot	
Penetrating	

**Coast Guard, DHS****Pt. 150, Table II**

Cottonseed oil, fatty acid	Magnesium long chain alkyl phenate sulfide (C8-C20)
Cyclohexyl acetate	Magnesium long chain alkyl salicylate (C11+)
Decyl acetate	3-Methoxybutyl acetate
Dialkyl(C7 - C13) phthalates	1-Methoxy-2-propyl acetate
Dibutyl hydrogen phosphonate	Methyl acetate
Dibutyl phthalate	Methyl acetoacetate
Diethylene glycol butyl ether acetate	Methyl amyl acetate
Diethylene glycol dibenzoate	Methyl butyrate
Diethylene glycol ethyl ether acetate	Methyl formate
Diethylene glycol methyl ether acetate	3-Methyl-3-methoxybutyl acetate
Diethylene glycol phthalate	Methyl salicylate
Di-(2-ethylhexyl)adipate	Metolachlor
Di-(2-ethylhexyl)phthalate	Naphthalene sulfonic acid, sodium salt solution (40% or less)
Diethyl phthalate	Nonyl acetate
Diethyl sulfate	n-Octyl acetate
Dihexyl phthalate	Octyl decyl adipate
Di-n-hexyl adipate	Oil, edible:
Diisobutyl phthalate	Beechnut
Diisodecyl phthalate	Castor
Diisononyl adipate	Cocoa butter
Diisononyl phthalate	Coconut <sup>2</sup>
Diisooctyl phthalate	Cod liver
Dimethyl adipate	Corn
Dimethylcyclicsiloxane hydrolyzate	Cotton seed
Dimethyl glutarate	Fish <sup>2</sup>
Dimethyl hydrogen phosphite <sup>2</sup>	Groundnut
Dimethyl naphthalene sulfonic acid, sodium salt solution <sup>2</sup>	Hazelnut
Dimethyl phthalate	Lard
Dimethyl polysiloxane	Lanolin
Dimethyl succinate	Nutmeg butter
Dinonyl phthalate	Olive
Diocyl phthalate	Palm <sup>2</sup>
Diphenyl tolyl phosphate, less than 0.02% ortho-isomer)	Palm kernel
Dipropylene glycol dibenzoate	Peanut
Dithiocarbamate ester (C7-C35)	Poppy
Ditridecyl adipate	Poppy seed
Ditridecyl phthalate	Raisin seed
2-Dodecenylsuccinic acid, dipotassium salt solution	Rapeseed
Diundecyl phthalate	Rice bran
2-Ethoxyethyl acetate	Safflower
Ethyl acetate	Salad
Ethyl acetoacetate	Sesame
Ethyl butyrate	Soya bean
Ethylene carbonate	Sunflower
Ethylene glycol acetate	Sunflower seed
Ethylene glycol butyl ether acetate	Tucum
Ethylene glycol diacetate	Vegetable
Ethylene glycol ethyl ether acetate	Walnut
Ethylene glycol methyl ether acetate	Oil, misc:
Ethyl-3-ethoxypropionate	Animal
Ethyl hexyl phthalate	Coconut oil, fatty acidid methyl ester
Ethyl propionate	Cotton seed oil, fatty acid
Ethyl propionate	Lanolin
Fatty acids (saturated, C14+)	Palm kernel oil, fatty acid methyl ester
Glycerol polyalkoxylate	Palm oil, methyl ester
Glyceryl triacetate	Pilchard
Glycidyl ester of C10 trialkyl acetic acid	Perilla
Glycidyl ester of tridecylacetic acid	Soapstock
Heptyl acetate	Soyabean (epoxidized)
Hexyl acetate	Tall
Lauric acid	Tall, fatty acid <sup>2</sup>
Lecithin	Tung
Magnesium long chain alkaryl sulfonate (C11-C50)	Olefin/Alkyl ester copolymer (molecular weight 2000+)

**Pt. 150, Table II**

Oleic acid  
 Palm kernel acid oil  
 Palm kernel acid oil, methyl ester  
 Palm stearin  
 n-Pentyl propionate  
 Poly(2-8)alkylene glycol monoalkyl(C1-C6)  
 ether acetate  
 Polydimethylsiloxane  
 Polyferric sulfate solution  
 Polymethylsiloxane  
 Poly(20)oxyethylene sorbitan monooleate  
 Polysiloxane  
 Polyolefin aminoester salt  
 Polyolefin ester (C28-C250)  
 Polyolefin phosphorusulfide, barium derivative (C28-C250)  
 Potassium formate solution  
 Potassium oleate  
 Potassium salt of polyolefin acid  
 Propyl acetate  
 Propylene carbonate  
 Propylene glycol methyl ether acetate  
 Sodium acetate, Glycol, Water mixture  
 (not containing Sodium hydroxide)<sup>2</sup>  
 Sodium acetate solution  
 Sodium benzoate solution  
 Sodium dimethyl naphthalene sulfonate  
 solution<sup>2</sup>  
 Sodium long chain alkyl salicylate (C13+)  
 Sodium naphthalene sulfonate solution  
 Soyabean oil (epoxidized)  
 Stearic acid  
 Tall oil  
 Tall oil fatty acid (*Resin acids less than 20%*)<sup>2</sup>  
 Tallow<sup>2</sup>  
 Tallow fatty acid<sup>2</sup>  
 Tributyl phosphate  
 Tricresyl phosphate  
 Tridecanoic acid  
 Tridecyl acetate  
 Triethylene glycol dibenzoate  
 Triethylene glycol di-(2-ethylbutyrate)  
 Triethyl phosphate  
 Triethyl phosphite<sup>2</sup>  
 Triisooctyl trimellitate<sup>2</sup>  
 Triisopropylated phenyl phosphates  
 2,2,4-Trimethyl-1,3-pentanediol  
 diisobutyrate  
 2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate  
 2,2,4-Trimethyl-3-pentanol-1-isobutyrate  
 Trimethyl phosphite<sup>2</sup>  
 Trisodium nitrilotriacetate  
 Trixylyl phosphate  
 Trixylenyl phosphate  
 Vegetable acid oils and distillates, n.o.s.  
 Vegetable oils, n.o.s.  
 Waxes:  
     Carnauba  
 Zinc alkaryl dithiophosphate (C7-C16)  
 Zinc alkyl dithiophosphate (C3-C14)

**35. VINYL HALIDES**

Vinyl chloride  
 Vinylidene chloride

**46 CFR Ch. I (10-1-12 Edition)**

**36. HALOGENATED HYDROCARBONS**

Benzyl chloride  
 Bromochloromethane  
 Carbon tetrachloride<sup>2</sup>  
 Catoxid feedstock<sup>2</sup>  
 Chlorinated paraffins (C10 - C13)  
 Chlorinated paraffins (C14 - C17)  
 Chlorobenzene  
 Chlorodifluoromethane  
 Chloroform  
 Chlorotoluene  
 Dibromomethane  
 Dibutylphenols  
 3,4-Dichloro-1-butene  
 Dichlorobenzene  
 Dichlorodifluoromethane  
 1,1-Dichloroethane  
 1,6-Dichlorohexane  
 2,2'-Dichloroisopropyl ether  
 Dichlormethane  
 Dichloropropane  
 Ethyl chloride  
 Ethylene dibromide  
 Ethylene dichloride<sup>2</sup>  
 Methyl bromide  
 Methyl chloride  
 Monochlorodifluoromethane  
 n-Propyl chloride  
 Pentachloroethane  
 Perchloroethylene  
 1,1,2,2-Tetrachloroethane  
 1,2,3-Trichlorobenzene  
 1,2,4-Trichlorobenzene  
 1,1,1-Trichloroethane<sup>2</sup>  
 1,1,2-Trichloroethane  
 Trichloroethylene<sup>2</sup>  
 1,2,3-Trichloroproppane  
 1,1,2-Trichloro-1,2,2-trifluoroethane

**37. NITRILES**

Acetonitrile  
 Adiponitrile  
 Lactonitrile solution  
 Propionitrile  
 Tallow nitrile

**38. CARBON DISULFIDE**

Carbon disulfide

**39. SULFOLANE**

Sulfolane

**40. GLYCOL ETHERS**

Alkyl (C7-C11) phenol poly(4-12)ethoxylate  
 Alkyl (C9-C15) phenyl propoxylate  
 Diethylene glycol<sup>2</sup>  
 Diethylene glycol butyl ether  
 Diethylene glycol dibutyl ether  
 Diethylene glycol diethyl ether  
 Diethylene glycol ethyl ether  
 Diethylene glycol methyl ether  
 Diethylene glycol n-hexyl ether  
 Diethylene glycol phenyl ether  
 Diethylene glycol propyl ether  
 Dipropylene glycol

**Coast Guard, DHS**

Dipropylene glycol butyl ether  
 Dipropylene glycol methyl ether  
 Ethoxy triglycol  
 Ethylene glycol hexyl ether  
 Ethylene glycol methyl butyl ether  
 Ethylene glycol monoalkyl ethers  
 Ethylene glycol tert-butyl ether  
 Ethylene glycol butyl ether  
 Ethylene glycol dibutyl ether  
 Ethylene glycol ethyl ether  
 Ethylene glycol isopropyl ether  
 Ethylene glycol methyl ether  
 Ethylene glycol phenyl ether  
 Ethylene glycol phenyl ether, Diethylene glycol phenyl ether mixture  
 Ethylene glycol propyl ether  
 Hexaethylene glycol  
 Methoxy triglycol  
 Nonyl phenol poly(4+)ethoxylates  
 Pentaethylene glycol methyl ether  
 Polyalkylene glycol butyl ether  
 Polyalkylene glycols, Polyalkylene glycol monoalkyl ethers mixtures  
 Polyethylene glycols  
 Polyethylene glycol dimethyl ether  
 Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether  
 Polyethylene glycol monoalkyl ether  
 Polypropylene glycol methyl ether  
 Polypropylene glycols  
 Poly(tetramethylene ether) glycols (mw 950-1050)  
 Polytetramethylene ether glycol  
 n-Propoxypropanol  
 Propylene glycol monoalkyl ether  
 Propylene glycol ethyl ether  
 Propylene glycol methyl ether  
 Propylene glycol n-butyl ether  
 Propylene glycol phenyl ether  
 Propylene glycol propyl ether  
 Tetraethylene glycol  
 Tetraethylene glycol methyl ether  
 Triethylene glycol  
 Triethylene glycol butyl ether  
 Triethylene glycol butyl ether mixture  
 Triethylene glycol ether mixture  
 Triethylene glycol ethyl ether  
 Triethylene glycol methyl ether  
 Tripolyethylene glycol  
 Tripolyethylene glycol methyl ether

**41. ETHERS**

Alkaryl polyether (C9-C20)  
 tert-Amyl methyl ether  
 Butyl ether  
 2,2'-Dichloroethyl ether  
 Diethyl ether  
 Diglycidyl ether of Bisphenol A  
 Diglycidyl ether of Bisphenol F  
 Dimethyl furan  
 1,4-Dioxane  
 Diphenyl ether  
 Diphenyl ether, Diphenyl phenyl ether mixture  
 Ethyl tert-butyl ether<sup>2</sup>  
 Ethyl ether  
 Long chain alkaryl polyether (C11-C20)

**Pt. 150, Table II**

Methyl-tert-butyl ether<sup>2</sup>  
 Methyl tert-pentyl ether  
 Propyl ether  
 Tetrahydrofuran  
 1,3, 5-Trioxane  
 Polyether (molecular weight 2000+)

**42. NITROCOMPOUNDS**

o-Chloronitrobenzene  
 Dinitrotoluene  
 Nitrobenzene  
 Nitroethane  
 Nitroethane, 1-Nitropropane mixture  
 Nitropropane  
 Nitropropane, Nitroethane mixtures  
 Nitrotoluene

**43. MISCELLANEOUS WATER SOLUTIONS**

Alkyl polyglucoside solutions  
 Aluminum sulfate solution<sup>2</sup>  
 2-Amino-2-hydroxymethyl-1,3-propanediol solution  
 Ammonium bisulfite solution<sup>2</sup>  
 Ammonium lignosulfonate solution  
 Ammonium nitrate, Urea solution (not containing Ammonia)  
 Ammonium polyphosphate solution  
 Ammonium sulfate solution  
 Ammonium thiosulfate solution  
 Sulfonated polyacrylate solutions<sup>2</sup>  
 Calcium bromide solution  
 Calcium chloride solution  
 Calcium lignosulfonate solution  
 Caramel solutions  
 Clay slurry  
 Corn syrup  
 Dextrose solution  
 2,4-Dichlorophenoxyacetic acid,  
 Diethanolamine salt solution  
 2,4-Dichlorophenoxyacetic acid,  
 Triisopropanolamine salt solution<sup>2</sup>  
 Diethanolamine salt of 2,4-  
 Dichlorophenoxyacetic acid solution  
 Diethylenetriamine pentaacetic acid,  
 pentasodium salt solution  
 Dodecyl diphenyl ether disulfonate solution  
 Drilling brine (containing Calcium, Potassium, or Sodium salts)  
 Drilling brine (containing Zinc salts)  
 Drilling mud (low toxicity) (*if non-flammable or non-combustible*)  
 Ethylenediaminetetraacetic acid,  
 tetrasodium salt solution  
 Ethylene-Vinyl acetate copolymer emulsion  
 Ferric hydroxyethylethylenediamine triacetic acid, trisodium salt solution<sup>2</sup>  
 Fish solubles (*water based fish meal extracts*)  
 Fructose solution  
 Fumaric adduct of Rosin, water dispersion  
 Hexamethylenediamine adipate solution  
 N-(Hydroxyethyl)ethylene diamine triacetic acid, trisodium salt solution  
 Kaolin clay slurry  
 Latex, liquid synthetic

**Pt. 150, App. I**

**46 CFR Ch. I (10-1-12 Edition)**

Lignin liquor	
Liquid Streptomyces solubles	
l-Lysine solution	
N-Methylglucamine solution	
Naphthenic acid, sodium salt solution	
Potassium chloride solution	
Potassium thiosulfate solution	
Rosin soap (disproportionated) solution	
Sewage sludge, treated	
Sodium alkyl sulfonate solution	
Sodium hydrogen sulfite solution	
Sodium lignosulfonate solution	
Sodium polyacrylate solution <sup>2</sup>	
Sodium salt of Ferric hydroxyethylethylenediamine triacetic acid solution	
Sodium silicate solution <sup>2</sup>	
Sodium sulfide solution	
Sodium sulfite solution	
Sodium tartrates, Sodium succinates solution	
Sulfonated polyacrylate solutions <sup>2</sup>	
Tall oil soap (disproportionated) solution	
Tetrasodium salt of EDTA solution	
Titanium dioxide slurry	
Triisopropanolamine salt of 2,4-Dichlorophenoxyacetic acid solution	
Urea, Ammonium nitrate solution (not containing Ammonia)	
Urea, Ammonium phosphate solution	
Urea solution	
Vegetable protein solution (hydrolysed)	
Water	

**FOOTNOTES TO TABLE II**

<sup>1</sup>Because of very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (CG-ENG-5), Hazardous Materials Division, U.S. Coast Guard, 2100 2nd Street, SW., Stop 7126, Washington, DC 20593-7126. Telephone 202-372-1420; email: [hazmatstandards@uscg.mil](mailto:hazmatstandards@uscg.mil).

<sup>2</sup>See Appendix I—Exceptions to the Chart.

[CGD 88-100, 54 FR 40012, Sept. 29, 1989]

**EDITORIAL NOTE:** For FEDERAL REGISTER citations affecting Table II to part 150, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at [www.fdsys.gov](http://www.fdsys.gov).

**APPENDIX I TO PART 150—EXCEPTIONS TO THE CHART**

(a). The binary combinations listed below have been tested as prescribed in Appendix III and found not to be dangerously reactive. These combinations are exceptions to the Compatibility Chart (Figure 1) and may be stowed in adjacent tanks.

Member of reactive group	Compatible with
Acetone (18) .....	Diethylenetriamine (7)

Member of reactive group	Compatible with
Acetone cyanohydrin (0) .....	Acetic acid (4) Triethanolamine (8)
Acrylonitrile (15) .....	Morpholine (7) Ethylamine (7) Triethanolamine (8)
1,3-Butylene glycol (20) .....	N-Methyl-2-pyrrolidone (9)
1,4-Butylene glycol (20) .....	Isobutyl alcohol (20) Ethyl alcohol (20) Ethylene glycol (20) Isopropyl alcohol (20) Methyl alcohol (20) iso-Octyl alcohol (20)
gamma-Butyrolactone (0) .....	Caustic soda, 50% or less (5)
Caustic potash, 50% or less (5). .	Butyl alcohol (20) tert-Butyl alcohol, Methanol mixtures Decyl alcohol (20) iso-Decyl alcohol (20) Diacetone alcohol (20) Diethylene glycol (40) Dodecyl alcohol (20) Ethyl alcohol (20) Ethyl alcohol (40%, whiskey) (20) Ethylene glycol (20) Ethylene glycol, Diethylene glycol mixture (20) Ethyl hexanol (Octyl alcohol) (20) Methyl alcohol (20) Nonyl alcohol (20) iso-Nonyl alcohol (20) Propyl alcohol (20) iso-Propyl alcohol (20) Propylene glycol (20) Sodium chlorate solution (0) iso-Tridecanol (20)
Caustic soda, 50% or less (5)	Acrylonitrile (15) Diisodecyl phthalate (34) Methyl ethyl ketone (18) iso-Nonyl alcohol (20) Perchloroethylene (36) iso-Propyl alcohol (20) Tall oil, crude Tall oil, fatty acid (34)
tert-Dodecanethiol (0) .....	Dodecyl and Tetradecylamine mixture (7).
Ethylenediamine (7) .....	Butyl alcohol (20) tert-Butyl alcohol (20) Butylene glycol (20) Creosote (21) Diethylene glycol (40) Ethyl alcohol (20) Ethylene glycol (20) Ethyl hexanol (20) Glycerine (20) Isononyl alcohol (20) Isophorone (18) Methyl butyl ketone (18) Methyl iso-butyl ketone (18) Methyl ethyl ketone (18) Propyl alcohol (20) Propylene glycol (20)
Oleum (0) .....	Hexane (31) Dichloromethane (36) Perchloroethylene (36)
1,2-Propylene glycol (20) .....	Diethylenetriamine (7) Polyethylene polyamines (7) Triethylenetriamine (7)
Sodium dichromate, 70% (0)	Methyl alcohol (20)
Sodium hydrosulfide solution (5). .	Methyl alcohol (20)
	Iso-Propyl alcohol (20)